

AMENDMENTS TO THE CLAIMS

Claims 1-28 cancelled.

29. (New) A digital signal recording disc comprising:

a first area (AOTT) comprising one or more audio pack(s) storing first and second channel digital audio signals of a plurality of channels of audio data, wherein said plurality of channels are divided into first and second channel groups (Group 1,2), and the first channel digital audio signal included in the first channel group comprises a front channel digital audio signal (Lf,Rf,C) and the second channel digital audio signal (Ls,Rs) included in the second channel group comprises a rear channel digital audio signal;

a second area (ATSI) differing from the first area and storing information of first and second parameters respectively relating to the first and second channel digital audio signals, the first parameter comprising at least one item selected from the group comprising;

quantization bit numbers (Q1,Q2) of the first and second group channel digital audio signals;

sampling frequencies (fs1,fs2) of the first and second channel group digital audio signals;

the second parameter (CHANNEL ASSIGNMENT) comprising assignment of the first and second channel digital audio signals to said first and second channel groups;

said audio pack having a private header storing information of first and second parameters respectively relating to the first and second channel digital audio signals, the first parameter comprising at least one item

selected from the group comprising quantization bit numbers (Q1,Q2) of the first and second group channel digital audio signals;

sampling frequencies (fs1,fs2) of the first and second channel group digital audio signals; and

the second parameter (CHANNEL ASSIGNMENT) comprising assignment of the first and second channel digital audio signals to said first and second channel groups.

30. (New) A digital signal recording disc as recited in claim 1, wherein the quantization bit numbers of the first and second channel digital audio signals are different from each other.

31. (New) A digital signal recording disc as recited in claim 2, wherein the sampling frequencies of the first and second channel digital audio signals are different from each other.

32. (New) A method of recording data to or reproducing data from the digital signal recording disc of claim 1.

33. (New) A digital signal recording disc as recited in claim 1, wherein the audio title set (ATS) comprises an audio-only-title audio-object AOTT-AOB, and the audio title set information (ATSI) contains an audio-only-title audio-object attribute AOTT-AOB-ATR for storing the information of first and second parameters.